MDM LOAD IN DIAGNOSTIC STATE (2A-3A)

1. PERFORM PRE-LOAD SANITY CHECK WITH MEMORY MAP AND FILE TO BE LOADED

FMT:LOAD:INITIATOR

If S/W Load

√SW_Load_XX_EEPROM_XX - (SW Load Version ID i.e. Rev 2)
√Memory Location - EEPROM
√SW_Load_EEPROM_Start_Addr - compatible with Memory Map.
√SW_Load_XX_Wd_Count - compatible with Memory Map.

If ADT Load

NOTE
Separate files are required for Loads to non contiguous memory areas, and also for DRAM and EEPROM Loads.

√Memory Location - EEPROM
√ADPXX_EEPROM_Start_Addr - compatible with Memory Map.
√ADPXX_Wd_Count - compatible with Memory Map.
√ADPXX_Ver_Id -
√ADPXX_Cksum -
√Destination_Device- MDMXX

2. CONFIGURE FOR COMMAND UPLINK

TELCOM: TBD

If N1-2 is Primary (N1-1 is in Diagnostics)

√Command_Path- Orbiter / Early Comm
If uplink path = orbiter (Normal OIU configuration).
√OIU_Routing_Code -

Send Enable RT Device command to enable N1-1 MDM
√N1-1 = Enable RT
Send Disable NCS Auto Retry on N1-1
√N1-2 Auto Retry on N1-1 = Disable

If N1-1 is Primary (N1-2 is in Diagnostics)

√Command_Path- Orbiter / Early Comm

If uplink path = orbiter (Reconfigure the OIU to RT on Bus 3, BC on Bus 4, and Format 002).

√OIU_Routing_Code -

Send Enable RT Device command to enable N1-2 MDM

√N1-2 = Enable RT

Send Disable NCS Auto Retry on N1-2

√N1-1 Auto Retry on N1-2 = Disable

If both MDMs are in Diagnostics (Orbiter must present)

Uplink Path = OIU. Reconfigure the OIU to make bus 3/4 BC to the MDM being loaded and use format 002.

√OIU_Routing_Code -

3. SEND LOAD FILE

FMT:LOAD:INITIATOR

If SW Load

cmd_SW_Load_XX_Version XX_Uplink (TBD)

If ADT Load

cmd_ADP_Load_XX_Uplink (TBD)

NOTE

Send all load cmd files.
Multiple ADP files may be required.

cmd__SW_PT#_Uplink (TBD)

cmd_ADP_XX_cksum _Uplink (TBD)

4. VERIFY COMPLETION OF LOAD

FMT:LOAD:INITIATOR

√FMT_Load_Status- 100% complete

5. REINITIALIZE EEPROM

Perform SODF: REINITIALIZE NODE 1 MDMS PROCEDURE